

APPENDIX "B"

PANLABS LIGAND RECEPTOR ASSAY LIST:

Drug screening labs such as Panlabs and Novascreen provide a service to check the specificity of drug leads at different receptor targets. The list of radio ligand receptor binding assays is set forth below. This information can be found on the world wide web at:

<http://www.panlabs.com/prod/a-pharm-asy-1st0.html>

Radioligand Binding Assays

Please note for this section:

10 Our standard procedure is to assay at the initial recommended concentration in duplicate; if active (50%), concentration responses are carried out to determine IC₅₀ ± SEM... (n=34 tubes). Other testing options are listed below.

15 1) Primary Screening and Quantitative Analysis (active compounds only):
IC₅₀ ± SEM, Ki, nH in Radioligand Binding Assays; IC₅₀ ± SEM in Enzyme Assays, n=34 tubes per assay
2) Primary Screening and Semi-Quantitative Analysis: (10-5M and confirmation; 10-6, 10-7, 10-8M), n=10 tubes per assay
3) Three Point Primary Screen: (10-5, 10-7, 10-9M), n=6 tubes per assay
20 4) Primary Screen Only: (10-5 M), n=2 tubes per assay

\$/Tube

Adenosine
A1 (rat) \$30
A2A (rat) \$30
25 A3 (human) \$50
Uptake Transporter (guinea pig) \$40
Adrenergic
alpha1A (human) \$50
alpha1B (rat) \$30
30 alpha1, Non-Selective (rat) \$30
alpha2A (human) \$50
alpha2B (rat) \$30
alpha2C (human) \$50
alpha2, Non-Selective (rat) \$30
35 beta1 (human) \$50
beta2 (human) \$50
beta3 (human) \$50
beta, Non-Selective (rat) \$30

Norepinephrine Transporter (rat) \$40
Angiotensin
AT1 (rabbit) \$40
AT2 (rabbit) \$40
5 Atrial Natriuretic Factor (guinea pig) \$30
Bombesin (rat) \$40
Bradykinin
B1 (human) \$50
B2 (guinea pig) \$40
10 Calcitonin (human) \$40
Calcitonin Gene Related Peptide (rat) \$40
Ca₂₊ Channel
Type L, Benzothiazepine (rat) \$30
Type L, Dihydropyridine (rat) \$30
15 Type L, Phenylalkylamine (rat) \$30
Type N (rat) \$40
Cannabinoid
CB1 (human) \$50
CB2 (human) \$50
20 Cholecystokinin
CCKA (human) \$50
CCKB (human) \$50
Choline Transporter (rat) \$40
Dopamine
25 D1 (human) \$50
D2S (human) \$50
D3 (human) \$50
D4.2 (human) \$50
D4.4 (human) \$50
30 D4.7 (human) \$50
D5 (human) \$50
Transporter (rat) \$40
Endothelin
ETA (rat) \$40
35 ETB (human) \$50
Epidermal Growth Factor (human) \$40
Estrogen (bovine) \$40
GABA Transporter (rat) \$40
GABAA
40 Agonist Site (rat) \$30
Benzodiazepine, Central (rat) \$30
Benzodiazepine, Peripheral (rat) \$30
Chloride Channel, TBOB (rat) \$40
GABAB (rat) \$30
45 Galanin (rat) \$40
Glucocorticoid (human) \$40
Glutamate
AMPA (rat) \$30
Kainate (rat) \$30

Platelet Activating Factor (rabbit) \$30
Platelet-Derived Growth Factor (mouse) \$50
Potassium Channel
[KA] (rat) \$30
5 [KATP] (hamster) \$30
[KV] (rat) \$40
[SKCa] (rat) \$40
Progesterone (bovine) \$40
Purinergic P2X (rabbit) \$30
10 Serotonin
5-HT1 (rat) \$30
5-HT1A (human) \$50
5-HT2 (rat) \$30
5-HT3 (rabbit) \$30
15 5-HT4 (guinea pig) \$30
5-HT6 (human) \$50
5-HT7 (human) \$50
Transporter (rat) \$40
Sigma
20 sigma 1 (guinea pig) \$30
sigma 2 (rat) \$30
Non-Selective (guinea pig) \$30
Sodium Channel, Site 2 (rat) \$40
Somatostatin (mouse) \$40
25 Testosterone (rat) \$40
Thromboxane A2 (rabbit) \$30
Thyrotropin Releasing Hormone (rat) \$40
Transforming Growth Factor-beta (mouse) \$40
Tumor Necrosis Factor TNF-alpha (human) \$40
30 Vasoactive Intestinal Peptide VIP1 (human) \$50
Vasopressin V1 (rat) \$40